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# Phone Call Notes

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Call from D. Dudley - 7 ring Jan. 15, '65

Results of review of gear drawings.

1. D.D. had noted that the 31.T. helical <sup>gears</sup> pinions driving the roll shafts are not positively held in both directions. He recommended all 2 degree spacers. It was pointed out that the thrust is towards the shoulder on all of these pinions. He was satisfied that the washer was not needed in this case. Why not put in washer anyway? We don't understand the creep phenomena and possibly a gear can creep against the load direction. The washer would not be held axially.

2. 16457S

(a) Backlash  $\begin{smallmatrix} .007 \\ .009 \end{smallmatrix}$  not sufficient. We are waiting on Gleason.

(b) Under GENERAL NOTES we have

(g) Inspect - lap is necessary

(h) Finish grind tolerances diameters. — — —

ADD Make final inspection

( Always want final inspection after manufacturing is completed )



3. 164523(a) Basic Tooth Rack

Under .5236 put

"Adjust for backlash"

Tip relief modification, at . . . . . Awkward form of note

## (b) Add to note "D"

"If contact is not acceptable  
improve shaft alignment or modify  
helix angle of either member to  
match the ~~gear~~ other"

## + NOTE "E"

"In case of corrective  
grinding or cutting, tooth thickness  
may be reduced to .500 min."

(c) Material wrong4. 164527

(a) Note E should be removed from the  
roll shaft drawing. The helix modification  
note and chart takes care of this. Note E  
will be needed in drawing of unmodified  
 crowned

31.T. gears.



4. 164527 continued

(b) Boni rack

.3142"

"Adjust to backlash"

(c) After note 1c

Protect journal against handling scratches

Make final inspection (~~protect~~  
~~journals against handling scratches~~)

(d) Handling of roll angle notes.

5. D.D. will call Norm Wilson next Friday to make final arrangements for coming here in the week of the 25<sup>th</sup> to tell us about noise suppression.

Wants Norm Wilson to consider his feeling that decibel readings on the South Works Exp. Mill would be very worth while. It would peg where we are and where we want to go. If Norm agrees do we have equipment and trained man to make decibel measurements on the day he comes. He can arrange for man and equipment if this is not the case.

Believes that similar noise level readings may be desired at Steelco.



5. Bevel gear housing

Ask his opinion on casting as regards noise suppression.

Iron - (high strength, perhaps Malleability)  
much better than weldment.

Cast steel - a little better than  
weldment.